

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/021028

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04L27/26 H04L1/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SUMEI SUN; WIEMER I; HO C K; TJHUNG T T: "Training sequence assisted channel estimation for MIMO OFDM" WCNC 2003 - IEEE WIRELESS COMMUNICATIONS AND NETWORKING CONFERENCE, vol. 1, 13 March 2003 (2003-03-13), pages 38-43, XP002304707 NEW ORLEANS, LA, USA	1-25
A	the whole document	26-29
X	US 2003/016621 A1 (LI YE) 23 January 2003 (2003-01-23)	1-25
A	paragraphs '0007!, '0008! paragraphs '0043! - '0053! ----- -/--	26-29

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
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- *&* document member of the same patent family

Date of the actual completion of the international search

23 November 2004

Date of mailing of the international search report

29/11/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>MYEONGCHEOL SHIN ET AL: "A new training symbol structure to enhance the performance of channel estimation for mimo-ofdm systems"</p> <p>2003 IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING. PROCEEDINGS. (ICASSP). HONG KONG, APRIL 6 - 10, 2003, IEEE INTERNATIONAL CONFERENCE ON ACOUSTICS, SPEECH, AND SIGNAL PROCESSING (ICASSP), NEW YORK, NY : IEEE, US,</p> <p>vol. VOL. 1 OF 6,</p> <p>6 April 2003 (2003-04-06), pages IV397-IV400, XP010641180</p> <p>ISBN: 0-7803-7663-3</p> <p>the whole document</p> <p>-----</p>	

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Form PCT/ISA/210 (patent family annex) (January 2004)